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design of experiments and regression

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1 Experimental designs for simulation

Joan M. Donohue

December 1994 Proceedings of the 26th conference on Winter simulation

Full text available: pdf(690.23 KB) Additional Information: full citation, references, citings, index terms

2 Sensitivity analysis and optimization in simulation: design of experiments and case studies

Jack P. C. Kleijnen

December 1995 Proceedings of the 27th conference on Winter simulation

Full text available: pdf(750.93 KB) Additional Information: full citation, references, citings, index terms

Industrial/government track: Experimental design for solicitation campaigns Uwe F. Mayer, Armand Sarkissian

August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: Todf(80.12 KB)

Additional Information: full citation, abstract, references, index terms

Data mining techniques are routinely used by fundraisers to select those prospects from a large pool of candidates who are most likely to make a financial contribution. These techniques often rely on statistical models based on trial performance data. This trial performance data is typically obtained by soliciting a smaller sample of the possible prospect pool. Collecting this trial data involves a cost; therefore the fundraiser is interested in keeping the trial size small while still collectin ...

Keywords: data collection, experimental design, solicitation campaign

Regression metamodels and design of experiments Willem J. H. van Groenendaal, Jack P. C. Kleijnen November 1996 Proceedings of the 28th conference on Winter simulation

Full text available: pdf(626.14 KB) Additional Information: full citation, references, citings

Designing simulation experiments for evaluating manufacturing systems James J. Swain, Phillip A. Farrington December 1994 Proceedings of the 26th conference on Winter simulation



Full text available: ddf(828.11 KB) Additional Information: full citation, references, citings, index terms

Design of simulation experiments with manufacturing applications Phillip A Farrington, James J. Swain December 1993 Proceedings of the 25th conference on Winter simulation



Full text available: 736.48 KB) Additional Information: full citation, references



Experimental design in computer simulation

William E. Biles

December 1979 Proceedings of the 11th conference on Winter simulation - Volume 1

Full text available: pdf(498.52 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the application of experimental design techniques to computer simulation. Three principal areas of experimental design are considered: (1) factor screening experiments; (2) experiments of comparison; and (3) response surface methodology.

Design of simulation experiments

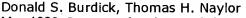
William E. Biles

January 1984 Proceedings of the 16th conference on Winter simulation

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(400.11 KB) terms

This paper describes the application of experimental design techniques to computer simulation. Three principal areas of experimental design are considered: (i) factor screening experiments; (2) experiments of comparison; and (3) response surface methodology.

Design of computer simulation experiments for industrial systems



May 1966 Communications of the ACM, Volume 9 Issue 5

Full text available: pdf(1.57 MB) Additional Information: full citation, references, citings



10 Introductory tutorials: Experimental design for simulation: experimental design for simulation



W. David Kelton, Russell R. Barton

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Full text available: additional Information: full citation, abstract, references

This tutorial introduces some of the ideas, issues, challenges, solutions, and opportunities in deciding how to experiment with simulation models to learn about their behavior. Careful planning, or designing, of simulation experiments is generally a great help, saving time and effort by providing efficient ways to estimate the effects of changes in the model's inputs on its outputs. Traditional experimental-design methods are discussed in the context of simulation experiments, as are the broa ...

11 Advanced tutorials: Experimental design and analysis: an overview of newer, advanced screening methods for the initial phase in an experimental design Linda Trocine, Linda C. Malone



December 2001 Proceedings of the 33nd conference on Winter simulation

Full text available: pdf(283.78 KB)

Additional Information: full citation, abstract, references, citings, index

Screening is the first phase of an experimental study on systems and simulation models. Its purpose is to eliminate negligible factors so that efforts may be concentrated upon just the important ones. Successfully screening more than about 20 or 30 factors has been investigated only in the past 10 or 15 years with most improvements in the past 5 years. A handful of alternative methods including sequential bifurcation, iterated fractional factorial designs, and the Trocine Screening Procedure are ...

12 Designing simulation experiments

W. David Kelton

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1

Full text available: pdf(75.99 KB)

Additional Information: full citation, references, citings, index terms

13 Design and software engineering: Experimental designs in software engineering: doptimal designs and covering arrays



Dean Hoskins, Renée C. Turban, Charles J. Colbourn

November 2004 Proceedings of the 2004 ACM workshop on Interdisciplinary software engineering research

Full text available: noti(200.36 KB) Additional Information: full citation, abstract, references, index terms

For over a century, Design of Experiment (DOE) techniques have been applied to testing in large problem domains such as agriculture, chemistry, medicine, and industrial design. Recently, the application of DOE has appeared in component-based software testing. This is a natural extension, as software testing is a complex problem that suffers from a combinatorial explosion. Exhaustive testing is not possible in most systems. In this paper, we focus on three areas: (1) the application of DOE tec ...

Keywords: covering arrays, d-optimal designs, factorial experiments

14 Application of a 2-stage group-screening design to a whole-line semiconductor manufacturing simulation model



Theodora Ivanova, Mansooreh Mollaghasemi, Linda C. Malone

November 1996 Proceedings of the 28th conference on Winter simulation

Full text available: pdf(592.99 KB) Additional Information: full citation, references

15 Identifying important factors in deterministic investment problems using design of experiments



Willem J. H. Van Groenendaal, Jack P. C. Kleijnen

December 1998 Proceedings of the 30th conference on Winter simulation

Full text available: pdf(66,06 KB) Additional Information: full citation, references, citings, index terms

16

Designing simulation experiments: Taguchi methods and response surface metamodels



John S. Ramberg, Susan M. Sanchez, Paul J. Sanchez, Ludwig J. Hollick December 1991 Proceedings of the 23rd conference on Winter simulation

Full text available: pdf(986.30 KB) Additional Information: full citation, references, citings, index terms

17 Comparison of a two-stage group-screening design to a standard 2k-p design for a whole-line semiconductor manufacturing simulation model



Theodora Ivanova, Linda Malone, Mansooreh Mollaghasemi

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1

Full text available: pdf(73.37 KB) Additional Information: full citation, references, citings, index terms

18 Bounding CPU utilization as a part of the model design and the scenario design of a large-scale military training simulation

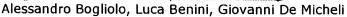


William R. Merritt

December 1998 Proceedings of the 30th conference on Winter simulation

Full text available: pdf(71.93 KB) Additional Information: full citation, references, index terms

19 Regression-based RTL power modeling



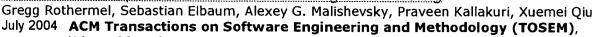
July 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES). Volume 5 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: mpdf(391.65 KB)

Register-transfer level (RTL) power estimation is a key feature for synthesis-based design flows. The main challenge in establishing a sound RTL power estimation methodology is the construction of accurate, yet efficient, models of the power dissipation of functional macros. Such models should be automatically built, and should produce reliable average power estimates. In this paper we propose a general methodology for building and tuning RTL power models. We address both hard macros (presy ...

Keywords: RTL design, RTL power modeling, adaptive characterization, functional macros, regression models

20 On test suite composition and cost-effective regression testing





Regression testing is an expensive testing process used to revalidate software as it evolves. Various methodologies for improving regression testing processes have been explored, but the cost-effectiveness of these methodologies has been shown to vary with characteristics of regression test suites. One such characteristic involves the way in which test inputs are composed into test cases within a test suite. This article reports the results of controlled experiments examining the effects of t ...

Keywords: Empirical studies, regression testing, test suite composition

Results 1 - 20 of 200

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